

ABSTRACT

A quick connect pipe coupling has a plug 14 formed with a locking recess 14-2 and a socket 12 provided with a plurality of radially movable locking elements 20. The locking elements are received in the locking recess to securely connect the plug to the socket. The socket 12 has a socket body 18. The socket body 18 includes a plurality of first through apertures 18-1 within which the respective locking elements are received, and a plurality of second through apertures 18-2 within which a plurality of sleeve actuators 28 are received. The plug 14 has a tapered surface 14-3. Upon insertion of the plug 14 into the socket body 18, the tapered surface 14-3 urges the sleeve actuators 28 into engagement with an inclined surface 22-3 of a sleeve 22. This results in axial displacement of the sleeve 22 and also, allows radial outward movement of the sleeve actuators. Further insertion of the plug urges the locking elements 20 to be engaged with the inclined surface of the sleeve. This results in further axial movement of the sleeve. After the locking elements and the sleeve actuators are moved in a radially outward direction, the locking elements and the sleeve actuators are fitted within the locking recess to provide a connection between the plug and the socket.